

*User's can find items from the list and return to the main menu via link in upper corner

FIG. 2

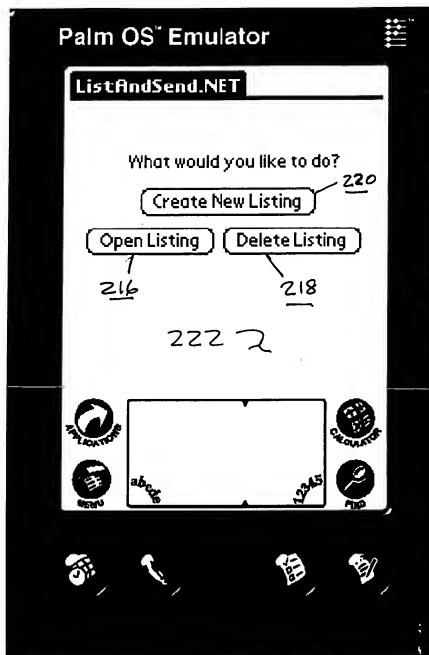


FIG. 2A

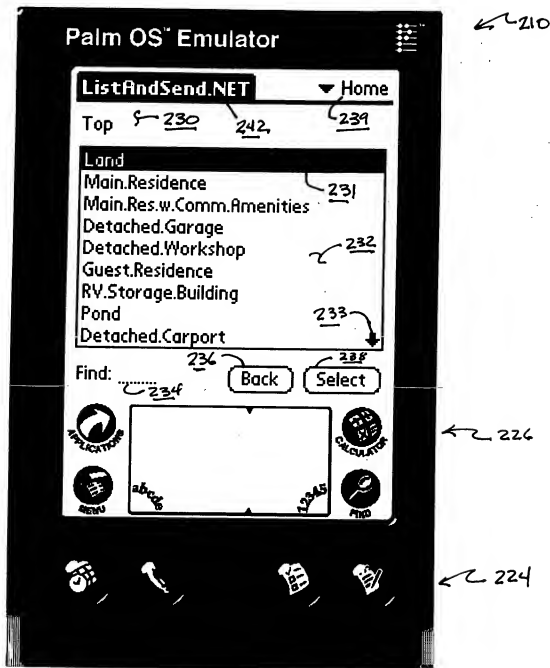


FIG. 2B

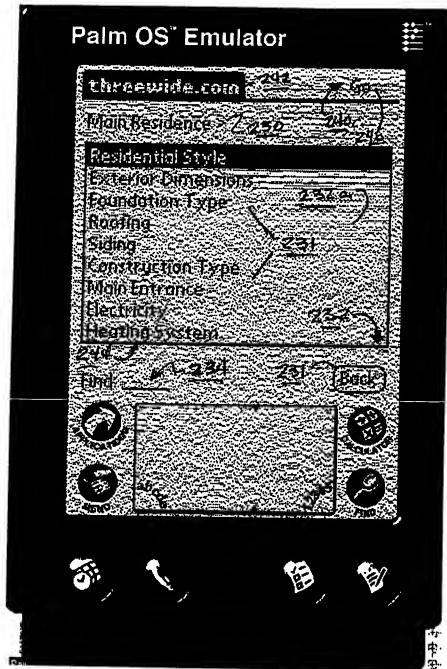


FIG. 2C

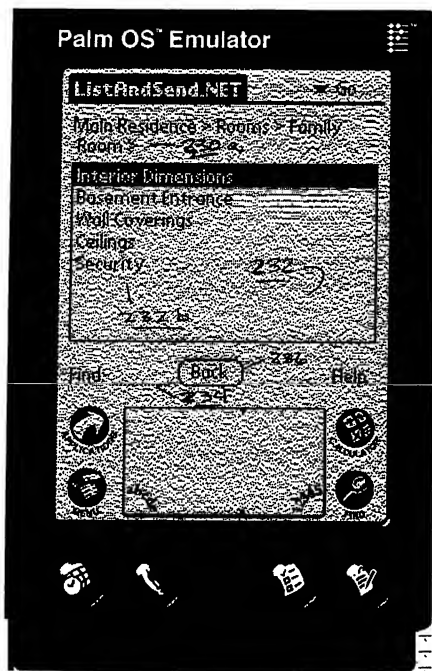


FIG. 2D

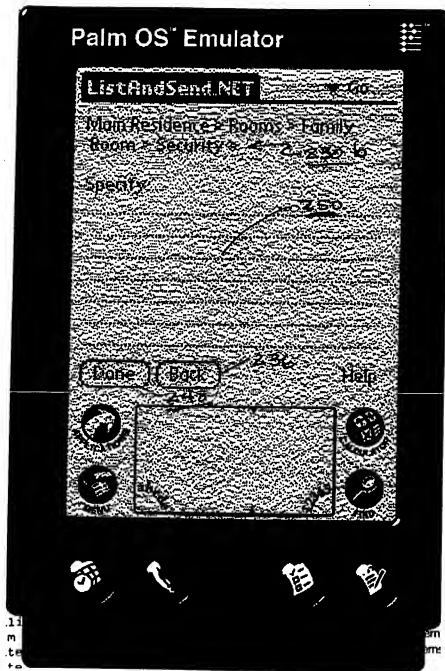


Fig. 2E

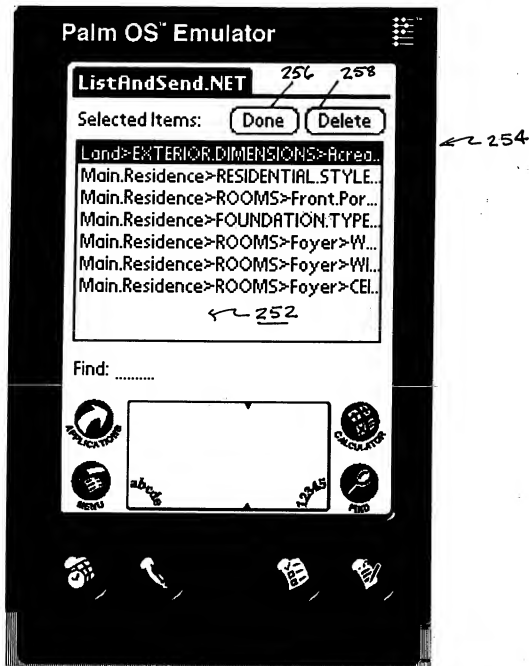


FIG. 2F

310

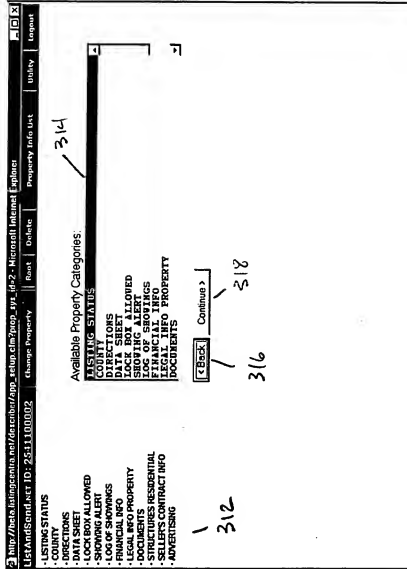


FIGURE 3A

http://data.listingcentral.net/ncscmcrapp_schop.cmr.php?sys_id=2341100002
 istAndSend.NET ID: 2341100002

LISTING STATUS

COUNTY

DIRECTIONS

DATA SHEET

LOCK BOX ALLOWED

SHOWING ALERT

LOG OF SHOWINGS

FINANCIAL INFO

LEGAL INFO PROPERTY

DOCUMENTS

STRUCTURES RESIDENTIAL
 SELLER'S CONTRACT INFO
 ADVERTISING

Available Attributes for: DOCUMENTS

Covenants & Restrictions
 Conditions
 Easements
 Plat
 Boundary Line Survey
 Survey-House Location
 Survey-Stake
 Survey-Tree
 Right-of-Way
 Site Plan

< Back | Continue >

316

318

FIGURE 3B

42-310

http://beta.listingcentral.net/describer/app_setup.cfm?prop_sys_id=2 - Microsoft Internet Explorer

Change Property Root Delete Property Info List Utility Logout

Available Categories for: Main Residence

314

320

316

318

312

LISTING STATUS
 COUNTY
 DIRECTIONS
 DATA SHEET
 LOCK BOX ALLOWED
 SHOWING ALERT
 LOG OF SHOWINGS
 FINANCIAL INFO
 LEGAL INFO PROPERTY
 DOCUMENTS
 STRUCTURES RESIDENTIAL
 Main Residence
 AMENITIES
 CONSTRUCTION TYPE
 COOLING FUEL
 COOLING SYSTEM
 DISCLOSURES
 ELECTRICITY
 EXTERIOR DIMENSIONS
 FOUNDATION TYPE
 HEATING FUEL
 HEATING SYSTEM
 HOT WATER
 INSULATION
 MAIN ENTRANCE
 POTABLE WATER INFO
 PROPERTY CONDITION
 RESIDENTIAL STYLE
 ROOFING
 ROOMS
 SEWER/SEPTIC INFO
 SIDING
 TV/CABLE/COMMUNICATIONS
 UTILITY METERING
 VIEW/PANORAMA

RESIDENTIAL STYLE
 EXTERIOR DIMENSIONS
 FOUNDATION TYPE
 ROOFING
 SIDING
 CONSTRUCTION TYPE
 MAIN ENTRANCE
 ELECTRICITY
 HEATING SYSTEM
 HEATING FUEL

< Back Continue >

FIGURE 3C

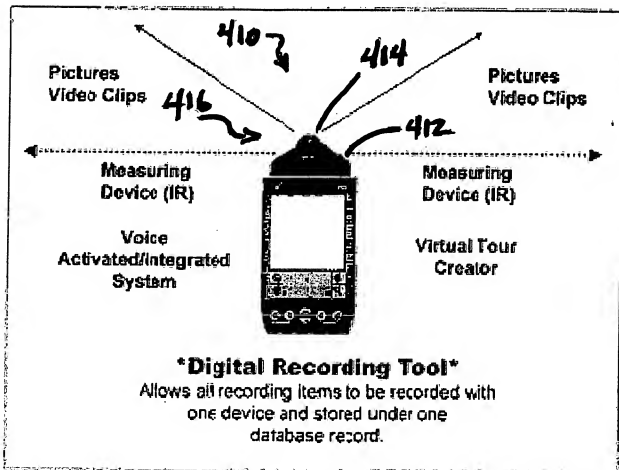


Figure 4

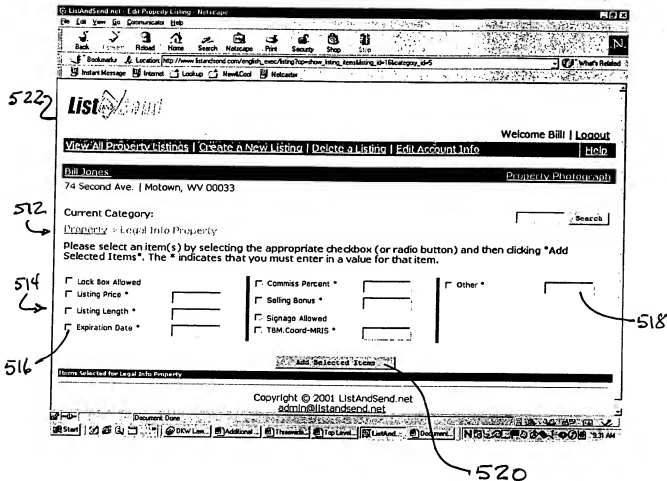
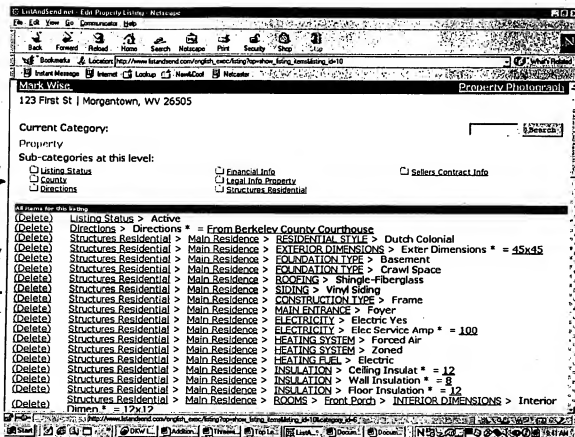


FIG. 5A



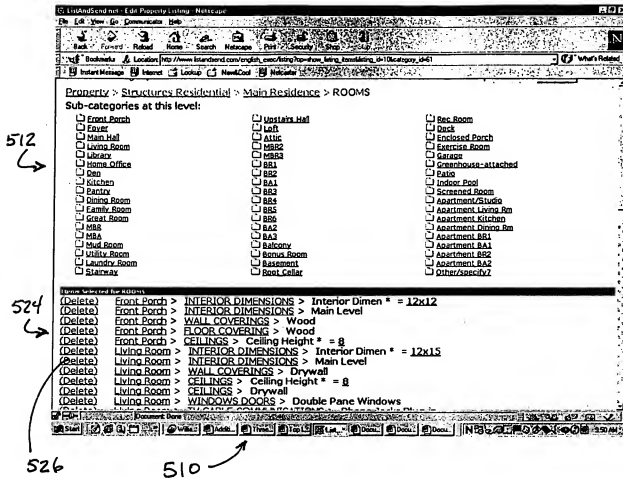


FIG. 5C

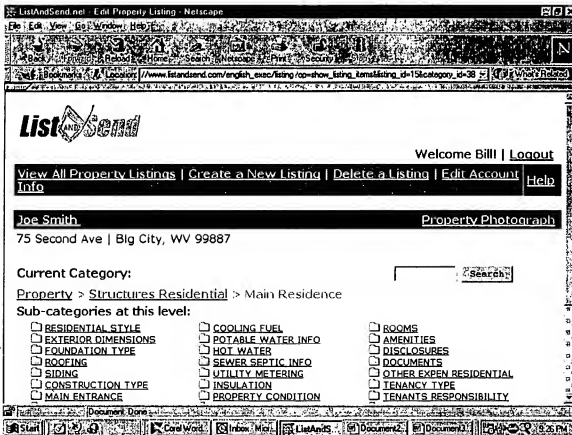


FIG. 5D

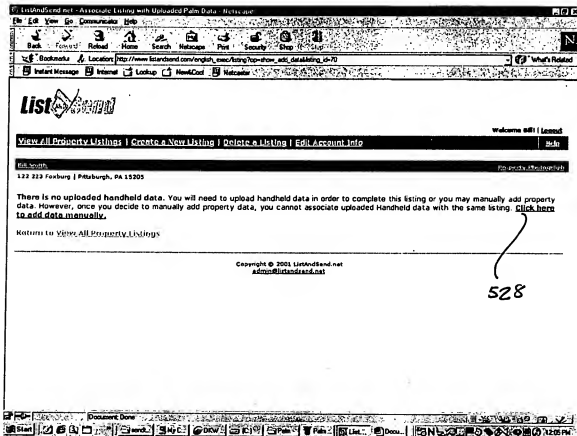


FIG. 5E

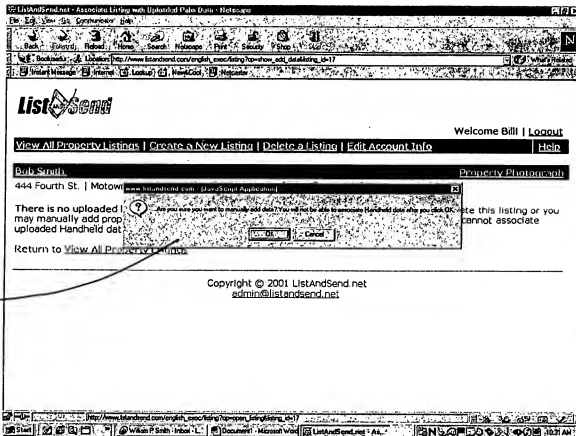


FIG. 5F

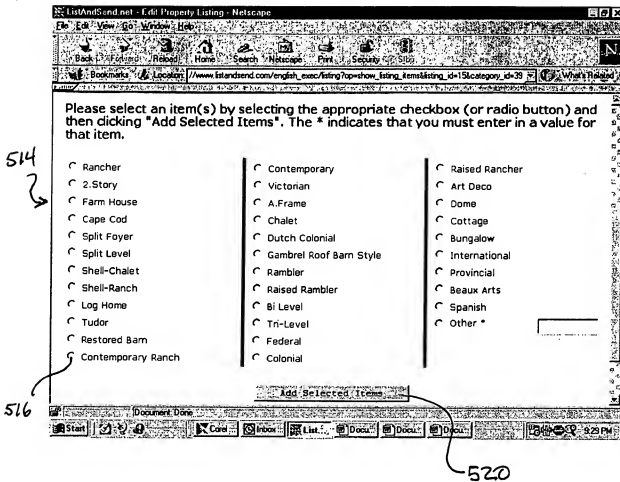


FIG. 5G

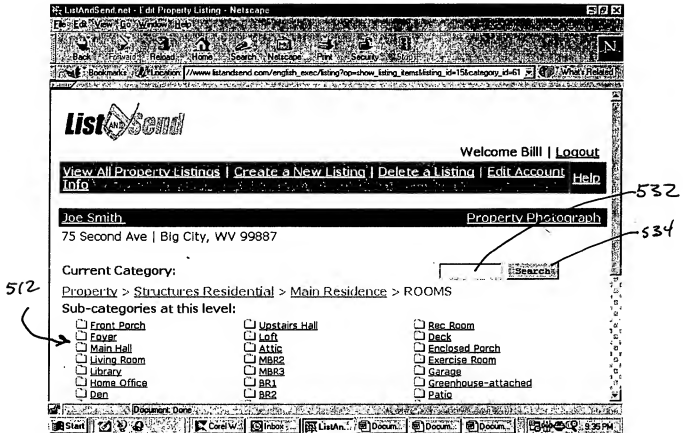


FIG. 5H

512 ↗

514 ↗

532 ↗

534 ↗

ListSend

Welcome Bill | Logout

[View All Property Listings](#) | [Create a New Listing](#) | [Delete a Listing](#) | [Edit Account Info](#) | [Help](#)

Joe Smith. [Property Photograph](#)

75 Second Ave | Big City, WV 99887

Current Category:
[Property](#) > [Structures Residential](#) > [Main Residence](#) > [Rooms](#) > [Bedroom-Fourth](#)

Please select an item(s) by selecting the appropriate checkbox (or radio button) and then clicking "Add Selected Items". The * indicates that you must enter in a value for that item.

<input type="checkbox"/> Dimensions Length	<input type="checkbox"/> Flooring Carpet	<input type="checkbox"/> Fireplaces Other
<input type="checkbox"/> Dimensions Width	<input type="checkbox"/> Flooring Wood under carpet	<input type="checkbox"/> Fireplaces Wood Burning
<input type="checkbox"/> Level Main	<input type="checkbox"/> Flooring Vinyl under carpet	<input type="checkbox"/> Fireplaces Wood Stove
<input type="checkbox"/> Level Upper 1	<input type="checkbox"/> Flooring Wood	<input type="checkbox"/> Fireplaces Gas
<input type="checkbox"/> Level Upper 2	<input type="checkbox"/> Flooring Vinyl	<input type="checkbox"/> Fireplaces Pellet Burning
<input type="checkbox"/> Level Upper 3	<input type="checkbox"/> Flooring Ceramic Tile	<input type="checkbox"/> Fireplaces Decorative
<input type="checkbox"/> Level Lower 1	<input type="checkbox"/> Flooring Marble	
<input type="checkbox"/> Level Lower 2	<input type="checkbox"/> Flooring Area Rm Size Rug	

FIG. 51

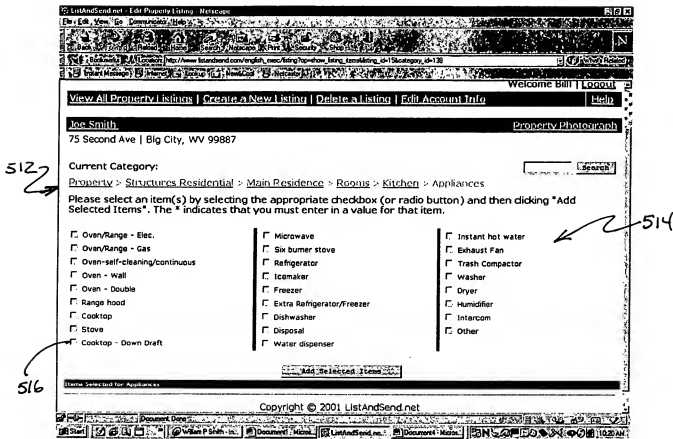


FIG. 5J

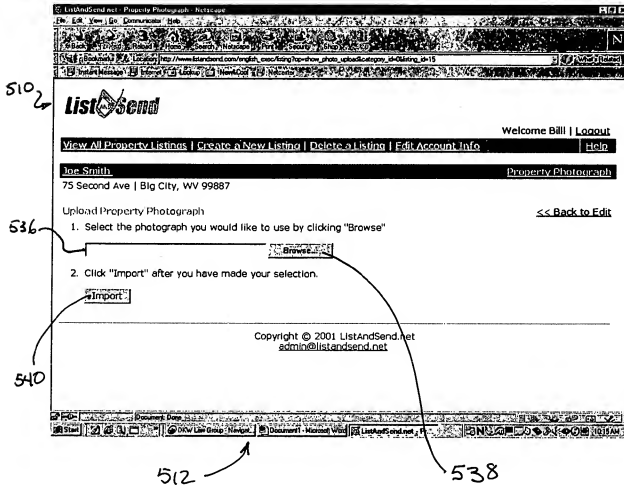


FIG. 5K

ListingSend.net - Edit your Account Information - Netscape

ListingSend

Welcome Bill | Logout

[View All Property Listings](#) | [Create a New Listing](#) | [Delete a Listing](#) | [Edit Account Info](#) | [Help](#)

Edit Your Account Information

First Name *	Middle Initial	Last Name *
<input type="text" value="Bill"/>	<input type="text"/>	<input type="text" value="Smith"/>
Mailing Address 1 *	Mailing Address 2	
<input type="text" value="123"/>	<input type="text"/>	
City *	State *	Zip Code *
<input type="text" value="McGowan"/>	<input type="text" value="WY"/>	<input type="text" value="84502"/>
Daytime (Work) Phone Number *	Evening Phone Number	Cell Phone Number
<input type="text" value="301-594-8081"/>	<input type="text"/>	<input type="text"/>
Daytime Fax Number	Evening Fax Number	
<input type="text"/>	<input type="text"/>	
Email address *	Web site URL	
<input type="text" value="bsmith@kxlaw.com"/>	<input type="text"/>	
MLS ID *	Brokerage ID *	Board ID
<input type="text" value="JMRIS"/>	<input type="text" value="Kesecker Realty"/>	<input type="text" value="EPBOR"/>
Broker? *	Agent? *	
<input type="text"/>	<input type="text"/>	

ListingSend.net - E&S

FIG. 5L

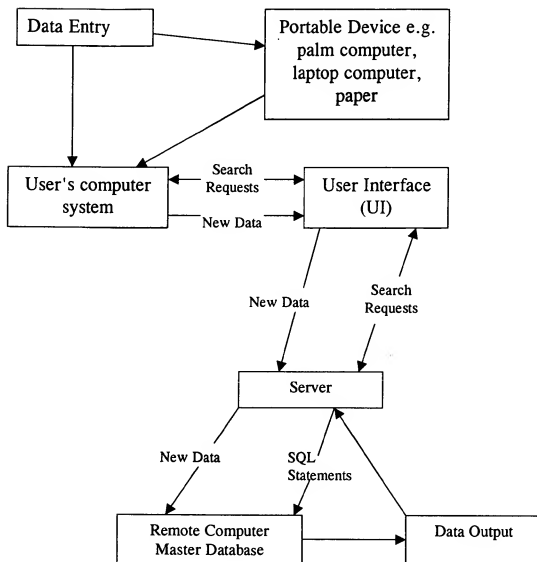
Figure 6
Hierarchical organization and addressing of data

	<u>Address</u>	<u>Concept</u>	<u>Hierarchy</u>
	1.0	Barn	
	2.0	Shed	
12---	3.0	House	House
	3.1	Porch	
	3.2	Room	House > Room
	3.3	Foundation	
12a-	3.2.1	Kitchen	House > Room > Kitchen
	3.2.2	Master Bedroom	
	3.2.3	Living Room	
12b-	3.2.1.1	Dimensions	House > Room > Kitchen > Appliances
	3.2.1.2	Appliances	
12c-	3.2.1.2.1	Range-top	House > Room > Kitchen > Appliances > Range
	3.2.1.2.2	Refrigerator	
	3.2.1.2.1.1	Range - Gas40	House > Room > Kitchen > Appliances > Range

The above example shows one possibility for numerical addressing. Other possible means of addressing include any sequence of characters that have logical order. Some examples are:

2.4.5.7.1
 24571
 BKJRT
 1, A, 5, T, 3

Figure 7
Possible organization of computer system using remote server



Note: for systems with local storage of the Database, the User Interface would interact directly with the database and the Server would not exist.

Figure 8
Possible organizations of ASP (Application Service Provider) systems

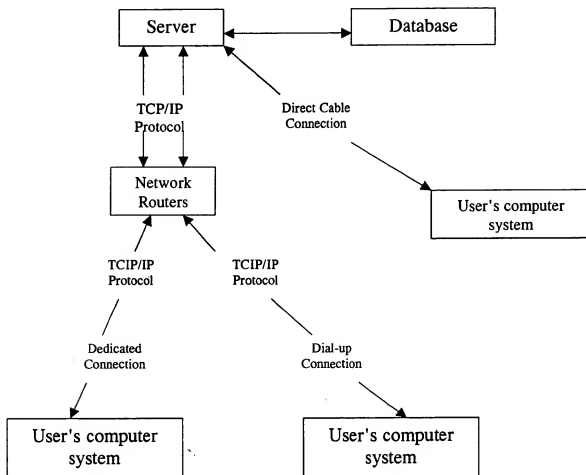


Figure 9
 Search methods possible with hierarchical addressing

Data Sample

Search Request

Methodology

11	Main Residence
1112	Kitchen
1113	Living Room
111312	Fireplace

Find the number of rooms in residenc.

Read address field to count occurrences of four digit address beginning with "11"

A11	Main Residence
A1112	Kitchen
A1113	Living Room
B11	Main Residence
B1112	Kitchen
B12	Detached Garage
B1211	Workshop
B13	Gazebo

Find the number of properties with detached garage.

Group data by property ID (1st character of address), count occurrences of "12" in second two digits of address

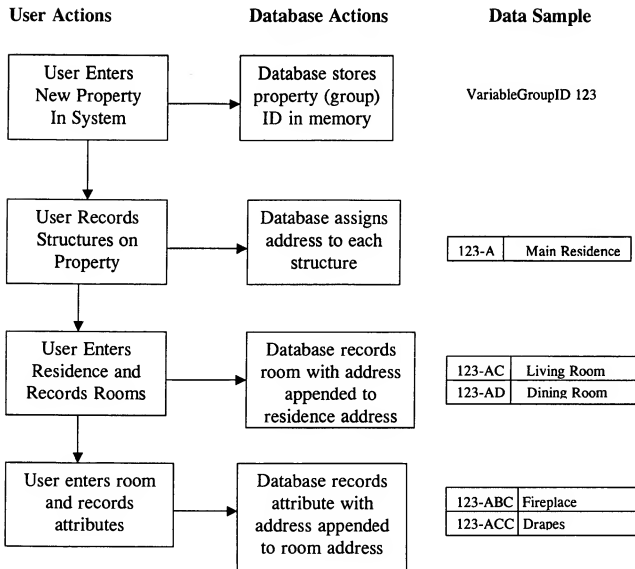
268.A	Residence
268.AC	Kitchen
268.AB	Living Room
268.ACG	Oven Gas
268.ACB	Refrigerator
268.ACD	Ice Maker In-door
268.ABA	Fireplace
268.ABF	Drapes

Find the type of oven in property 268.

Search for address "268.ACG", read contents of feature field

Address

Figure 10
Assignment of addresses and record group (property) ID
Using example of realty industry



This figure uses alphabetical addressing. Numerical addressing or a combination of alphabetical and numerical can also be used. The group ID may also be stored in a field separate from the address. See Figure 5 for samples of numerical addressing with separate group ID.

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